WBS No: 1DAE01 1DE0000001 Activity ID:

Factors 1 Technical Support Essia 625 Hours

Rocky Flats Closure Project Baseline Cost and Basis of Estimate

Proiect WBS Filter Activity Filter

Baseline Devl 1DAE

Starts In FY *

	DAE01		Title: B776 Mat	erial Stewards	hip										
ctivity ID:	1DE00	00001	Description: FY-00 B7	76/777 Waste I	/lanagement (Operations					Cost Risk	2 Schedule R	Risk 3		
Line Item	n		Description		Quantity	Units	BOE	Labor	Labor Hours	Labor Cost	Materials/ Sub	Contingency	Total Prime	Burden Cost	Total Cos
					1	1.	Type	Hours/Unit	Total	Total	Cost	& Escalation	Cost		
8		SNM Site Inventorie				each	EE EE	400	400	8.482	3.400	0		4.139	
)9 DA		SNM Facility Specifi	Accumulation Areas			Deach Deach	EE	200 7.695	200 7.695	4.241 171.549	1.700 52.260	0	5.941 223.809	2.070 83.716	
DA DI			ation TRU Waste Tech S)m4		Deach Deach	EE	1.360	1.360	54.182	125.800	0	179.982	26.441	
OR .		ntedration, Coordina Manage B776/777 F		SDL		Deach	EE	1.260	1.360	28.789	58.500	0		14.049	
DS			SCO/IP2 Transfers/PAD			Deach	EE	5.021	5.021	109.843	128.920	0		53.785	
DT		Manage B776/777 D				Deach	FF	6.391	6.391	147.961	120.920	0	147.961	72.205	
/ 1	110	Manage D770/777 L	Julii Hallsleis		Total for Activ			0.531	22.327	525.047	370.580			256.404	
e Item MO:	8 - SNN	// Site Inventories	:		Total for Activ	nty IDE0000	001.		22.021	020.047	370.300		030.021	250.404	1.102.
BOE			urce - The histori	cal data is	from the	FY98 actua	al cos	ts for tec	nnical supp	ort activit	y. These c	osts have b	een factore	ed to the l	ine item
OL	leve:	l based on FY9	9 line item to tot	al technica	l support	quotients	. The	detailed	factoring s	preadsheet	can be foun	d in B776/7	77 FY99 Pro	oject Summa	ry
	Docur	ment - Rev 0.													
	Item	Desc - Semi A	nnual mandatory si	te inventor	ies of SNM	I (June/De	cember).							
	One t	weeks time for	8 D&D workers, 1	RCT 1 fore	man and or	e Tech Siii	nnort								
			1	11017 1 1010		10011 54	PPOLU		D			Curve			nits
esources	_	Cost Element M010 FOREM 750 STRAIGHT TIME BASE M010 FOREM				Skill Department EN / TEAM LEADS / GROUP R100S RMRS Salaried						Linear	Ol	40.00 Hou	
	Factor			LLEADS / GF	KOUP	K IUUS IRIV	KS Salaneu			Linear		40.00100	IS		
	750		reman IE BASE	T050 RAD		Hours ON CONTROL TECHNOLIGI			Complex Stee	lworkors		Linear		40.00 Hou	re
	Factor			40		Hours			KD10H 776 Complex Steelworkers					40.00 1100	15
	750					TECH / RISK	(RED	KD10H 776 Complex Steelworkers				Linear		320.00 Hou	re
	Factor	· ·	D Workers	40		Z REDUC TECH / RISK RED Hours			RD 10H 1/76 Complex Steelworkers			Lilleai		320.00ji 100	13
						ALITA ENO	INICED	KOOOC D	-!: 770 D!-	-4		1 !		3.400.00 Doll	
	Δ5H	I ISLIBCONTRAC	TED SRVS	EOSO INITIC	FAR (CRITIC	$:\Delta \cap \cap A \cap \Box \cap A$									are
	A5H Factor			E080 NUC		CALITY) ENG	INEEK					Linear	l l	3.400.0010011	ars
tem M0	Factor	rs 1 Tec	ch Support	E080 INUC 40	Hours	ZALITY) ENG	INEEK	K3995 Bul 85	s's/Hour			Linear		3.400.00 <u> </u> D0	ars
	Factor	rs 1 Ted Il Facility Specific	ch Support Inventory	40	Hours			85				Linear		3.400.00 <u> </u> D0	ars
	Factor	rs 1 Ted Il Facility Specific	ch Support	40	Hours			85				Linear		3.400.00[DOII	ars
	Factor 199 - SNM Histo	rs 1 Tec M Facility Specific orical Data So	ch Support Inventory	40 cal data is	Hours from the	FY99 SNM		85				Linear		3.400.00(D0II	ars
e Item M09 BOE	Factor 199 - SNM Histo	rs 1 Tec M Facility Specific orical Data So	ch Support <i>Inventory</i> purce – The histori	40 cal data is	Hours from the	FY99 SNM		85				Linear	1	3.400.00 D0	ars
	Factor P9 - SNM Histo	rs 1 Tec M Facility Specific orical Data So Desc - Semi A	ch Support Inventory Purce - The histori Innual Facility Spe	40 cal data is	from the tories of	FY99 SNM	Invent	ory				Linear		3.400.00IDUII	ars
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OE	Factor P9 - SNM Histor Item One v	rs 1 Tec M Facility Specific orical Data So Desc - Semi A weeks time for	ch Support Inventory Purce - The histori Innual Facility Spe 8 D&D workers, 1 Ilement	40 cal data is ecific Inver	from the tories of man and or	FY99 SNM : SNM. ne Crit Eng	Invent gineer	85	\$'s/Hour			Curve	Oi	uantity U	nits
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OE	Factor One v SS Factor 750 Factor 750 Factor	Technology 1 Technology 1 Technology 2 Techn	ch Support Inventory Purce - The histori Innual Facility Spe 8 D&D workers, 1 Immediate the second	40 cal data is cific Inver RCT, 1 fore M010 FOR 20 T050 RAD 20 T060 D&D	Hours from the tories of man and or Skill EMEN/TEAM Hours ATION CONT Hours HAZ REDUC Hours	FY99 SNM SNM. SNM. HE Crit English TECH/RISH	Invent gineer ROUP IOLIGI	R100S RM KD10H 776	\$'s/Hour Depart RS Salaried Complex Stee	ment lworkers lworkers		Curve Linear Linear	O ₁	20.00 Hou	nits rs
OE	Factor One v One v Factor T50 Factor A5H	Technology 1 Technology 1 Technology 2 Techn	ch Support Inventory Purce - The histori Innual Facility Spe 8 D&D workers, 1 Idement IE BASE IE BASE IE BASE IE BASE IT IE BASE ID Workers IETD SRVS	A0 cal data is cific Inver RCT, 1 fore M010 FOR 20 T050 RAD 20 T060 D&D 20 E080 NUC	Hours from the tories of man and or Skill EMEN/TEAM Hours ATION CONT Hours HAZ REDUC Hours EAR (CRITIC	FY99 SNM SNM. SNM. HE Crit English TECH/RISH	Invent gineer ROUP IOLIGI	R100S RM KD10H 776 KD10H 776 K399S Bui	\$'s/Hour Depart RS Salaried Complex Stee Complex Stee ding 776 Proje	ment lworkers lworkers		Curve Linear Linear	O _I	20.00 Hou	nits IS
OE esources	Factor One v SS T50 Factor T50 Factor T50 Factor A5H Factor	rs 1 Tec ### Facility Specific orical Data So Desc - Semi A: ### weeks time for ### Cost Ell STRAIGHT TIM ### SUBCONTRAC ### SUBCONTRAC	ch Support Inventory Purce - The histori Innual Facility Spe 8 D&D workers, 1 Idement IE BASE IEEE BASE	40 cal data is cific Inver RCT, 1 fore M010 FOR 20 T050 RAD 20 T060 D&D	Hours from the tories of man and or Skill EMEN/TEAM Hours ATION CONT Hours HAZ REDUC Hours	FY99 SNM SNM. SNM. HE Crit English TECH/RISH	Invent gineer ROUP IOLIGI	R100S RM KD10H 776	\$'s/Hour Depart RS Salaried Complex Stee	ment lworkers lworkers		Curve Linear Linear	O _I	20.00 Hou	nits IS
BOE Resources	Factor One v SS T50 Factor T50 Factor T50 Factor A5H Factor A5H Factor A5H Factor A6H Factor A6H Factor A750 Fa	Technology of the state of the	ch Support Inventory Purce - The histori Innual Facility Spe 8 D&D workers, 1 Idement IE BASE ITEMAN IE BASE I	40 cal data is ecific Inver RCT, 1 fore M010 FOR 20 T050 RAD 20 T060 D&D 20 E080 NUC 20	Hours from the tories of man and or Skill EMEN/TEAN Hours ATION CONT HOURS HAZ REDUC Hours EAR (CRITIC	FY99 SNM SNM. SNM. ALEADS/GF FROL TECHN TECH/RISH CALITY) ENG	Invent gineer ROUP HOLIGI KRED	R100S RM KD10H 776 KD10H 776 K399S Bui	Depart RS Salaried Complex Stee Complex Stee ding 776 Proje \$'s/Hour	ment lworkers lworkers		Curve Linear Linear Linear Linear		20.00 Hou 20.00 Hou 160.00 Hou 1.700.00 Doll	nits rs rs rs
3OE Resources	Factor One v SS T50 Factor T50 Factor T50 Factor T60 Factor A5H Factor A5H Factor Manag	Technology of the state of the	ch Support Inventory Purce - The histori Innual Facility Spe 8 D&D workers, 1 Idement IE BASE IT I	40 cal data is ecific Inver RCT, 1 fore M010 FOR 20 T050 RAD 20 T060 D&D 20 E080 NUC 20	Hours from the tories of man and or Skill EMEN/TEAN Hours ATION CONT HOURS HAZ REDUC Hours EAR (CRITIC	FY99 SNM SNM. SNM. ALEADS/GF FROL TECHN TECH/RISH CALITY) ENG	Invent gineer ROUP HOLIGI KRED	R100S RM KD10H 776 KD10H 776 K399S Bui	Depart RS Salaried Complex Stee Complex Stee ding 776 Proje \$'s/Hour	ment lworkers lworkers	isting of a	Curve Linear Linear Linear Linear		20.00 Hou 20.00 Hou 160.00 Hou 1.700.00 Doll	nits rs rs rs
BOE Resources	Factor One v Item One v Factor 750 Factor 750 Factor OA - Mai Manag Techn	TS 1 Tec M Facility Specific orical Data So Desc - Semi A weeks time for Cost Flo STRAIGHT TIM TS 1 FOR STRAIGHT TIM TS 1 RC TS 1 R	ch Support Inventory Purce - The histori Innual Facility Spe 8 D&D workers, 1 Idement ILE BASE ILE BA	A0 cal data is cific Inver RCT, 1 fore M010 FOR 20 T050 RA0 20 T060 D&D 20 E080 NUC 20 con areas wi	Hours from the tories of man and or Skill EMEN/TEAM Hours ATION CONT Hours HAZ REDUC Hours LEAR (CRITIC Hours	FY99 SNM SNM. SNM. ALEADS/GF FROL TECHN TECH/RISH CALITY) ENG	Invent gineer ROUP HOLIGI KRED	R100S RM KD10H 776 KD10H 776 K399S Bui	Depart RS Salaried Complex Stee Complex Stee ding 776 Proje \$'s/Hour	ment lworkers lworkers	isting of a	Curve Linear Linear Linear Linear		20.00 Hou 20.00 Hou 160.00 Hou 1.700.00 Doll	nits rs rs rs
Resources e Item WO	Factor One v SS 750 Factor 750 Factor A5H Factor OA - Mai Manaç Techr These	Technology of the process of the pro	ch Support Inventory Purce - The histori Innual Facility Spe 8 D&D workers, 1 Immedia IE BASE IT I	A0 cal data is cific Inver RCT, 1 fore M010 FOR 20 T050 RA0 20 T060 D&D 20 E080 NUC 20 con areas wi	from the tories of man and or Skill EMEN/TEAM Hours ATION CONT Hours HAZ REDUC Hours EAR (CRITIC Hours 11 be cond schedule.	FY99 SNM SNM. SNM. ALEADS/GF FROL TECHN TECH/RISH CALITY) ENG	Invent gineer ROUP HOLIGI KRED	R100S RM KD10H 776 KD10H 776 K399S Bui	Depart RS Salaried Complex Stee Complex Stee ding 776 Proje \$'s/Hour	ment lworkers lworkers ct s crew cons	isting of a	Curve Linear Linear Linear Linear Foreman, 8	D&D worker	20.00 Hou 20.00 Hou 160.00 Doll	nits IS IS IS IS IS IS
BOE Resources	Factor One v SS T50 Factor T50 Factor T50 Factor T60 Factor T60 Factor T60 Table Factor T60	TS 1 Tec M Facility Specific orical Data So Desc - Semi A weeks time for Cost Flo STRAIGHT TIM TS 1 FOR STRAIGHT TIM TS 1 RC TS 1 R	ch Support Inventory Purce - The histori Innual Facility Spe 8 D&D workers, 1 Idement IE BASE IE BASE IT IE B	A0 cal data is cific Inver RCT, 1 fore M010 FORD 20 T050 RAD 20 T060 D&D 20 E080 NUC 20 con areas with our per day	Hours from the tories of man and or Skill EMEN/TEAM Hours ATION CONT HOURS HAZ REDUC Hours LEAR (CRITIC Hours 11 be cond schedule. Skill	FY99 SNM: SNM. HE Crit English ROL TECHN TECH/RISH CALITY) ENG	Invent gineer ROUP IOLIGI KRED IINEER	R100S RM KD10H 776 KD10H 776 K399S Bui	Depart RS Salaried Complex Stee Complex Stee Sis/Hour	ment lworkers lworkers ct s crew cons	isting of a	Curve Linear Linear Linear Linear	D&D worker	20.00 Hou 20.00 Hou 160.00 Doll	nits IS IS IS IS ars and a

WBS No: 1DAE01 Baseline Devl Proiect Rocky Flats Closure Project 1DE0000001 1DAE Activity ID: WBS Filter **Baseline Cost and Basis of Estimate** Activity Filter Starts In FY 750 STRAIGHT TIME BASE T050 RADIATION CONTROL TECHNOLIGI | KD10H | 776 Complex Steelworkers 1 250 00 Hours Linear RCTs Hours Each D&D HAZ REDUC TECH / RISK RED | KD10H | 776 Complex Steelworkers 750 STRAIGHT TIME BASE T060 5.000.00 Hours Linear D&D Workers Hours each 751 OVERTIME BASE & PRE RADIATION CONTROL TECHNOLIGI | KD10H | 776 Complex Steelworkers Linear 164.00 Hours Factors 82 Working Days 5/22-9/30 hours/day OT RCTs D&D HAZ REDUC TECH / RISK RED | KD10H | 776 Complex Steelworkers 751 OVERTIME BASE & PRE. Linear 656.00 Hours Factors 82 Working Days 5/22-9/30 hours/day OT D&D Workers A5H SUBCONTRACTED SRVS FOREMEN / TEAM LEADS / GROUP M010 R100S RMRS Salaried 37.500.00 Dollars Linear 1 Foreman Schmiechen Hours each 60 dollars per hour M010 FOREMEN / TEAM LEADS / GROUP A5H SUBCONTRACTED SRVS R100S RMRS Salaried Linear 14.760.00 Dollars Factors Working Days 5/22-9/30 hours/day OT Foreman 60 dollars per hour Line Item WOI - Integration, Coordination TRU Waste Tech Spt Waste Operations Integration and coordination will be conducted by A Waste Operations Lead, a Waste Operations Coordinator, a material movement scheduler and BOE a technical support administrator. Cost Element Resources Denartment 750 STRAIGHT TIME BASE M020 MANAGERS (GRADE 69 - 72) K399S Building 776 Project Linear 680.00 Hours Hours Waste Operations Lead Ferrari 750 STRAIGHT TIME BASE P170 OTHER ADMINISTRATIVE & PROFE R100S RMRS Salaried Linear 680.00 Hours RMRS Material Movement Scheduler 680 M020 MANAGERS (GRADE 69 - 72) 57.800.00 Dollars A5H SUBCONTRACTED SRVS K399S Building 776 Project Linear Dollars per hour Integration Coordinator (open) 680 Hours A5H SUBCONTRACTED SRVS P170 OTHER ADMINISTRATIVE & PROFE K399S Building 776 Project 68,000,00 Dollars Linea **Technical Support West** 680 Hours 100 Dollars/hour Factors 1 Line Item WOR - Manage B776/777 Res feed Ops Management of the residue feed drums will be conducted by a dedicated waste operations crew consisting of a Foreman, 4 D&D workers, 2 RCTs and a Technical BOE Support Administrator. These crews will be on an AWS, 12-hour per day schedule. Resources Cost Element Units 750 STRAIGHT TIME BASE M010 FOREMEN / TEAM LEADS / GROUP R100S RMRS Salaried Linear 160.00 Hours Hours each Factors 1 Foreman TBD 750 STRAIGHT TIME BASE T050 RADIATION CONTROL TECHNOLIGI | KD10H | 776 Complex Steelworkers Linear 320.00 Hours 160 Hours Each Factors 2 RCTs 750 STRAIGHT TIME BASE D&D HAZ REDUC TECH / RISK RED | KD10H | 776 Complex Steelworkers 640.00 Hours 4 **D&D Workers** Hours each Factors M010 FOREMEN / TEAM LEADS / GROUP 751 OVERTIME BASE & PRE R100S RMRS Salaried Linear 20.00 Hours Foreman Hrs OT/day 1 KD10H 776 Complex Steelworkers 751 OVERTIME BASE & PRE RADIATION CONTROL TECHNOLIGI Linear 40.00 Hours Factors 2 RCTs davs Hrs OT/day 751 OVERTIME BASE & PRE D&D HAZ REDUC TECH / RISK RED KD10H 776 Complex Steelworkers Linear 80.00 Hours D&D Workers Hrs OT/day Factors 4 A5H SUBCONTRACTED SRVS P170 OTHER ADMINISTRATIVE & PROFE K399S Building 776 Project Linear 58 500 00 Dollars Tech Spt (Uetrecht) Chew & Assoc 650 90 Dollars/hour Hours Line Item WOS - Manage B776/777 SCO/IP2 Transfers/PAD Management of SCO containers and the 779 Pad will be conducted by a dedicated waste operations crew consisting of a Foreman, 6 D&D workers, 1 RCTs and a BOE Technical Support Administrator. These crews will be on an AWS, 12-hour per day schedule. Resources Cost Element Department Units L050 MISSION SUP SPEC I (CBLFAB, DSP, K777C Construction 72.00 Hours 750 STRAIGHT TIME BASE Linear K-H Const Heavy Equip Operator hours per day months days per month

WBS No: 1DAE01 Proiect Baseline Devl Rocky Flats Closure Project Activity ID: 1DE0000001 WBS Filter 1DAE **Baseline Cost and Basis of Estimate** Activity Filter Starts In FY 750 STRAIGHT TIME BASE T050 RADIATION CONTROL TECHNOLIGI KD10H 776 Complex Steelworkers 625.00 Hours Linear Factors 1 RCTs Hours Each T060 D&D HAZ REDUC TECH / RISK RED KD10H 776 Complex Steelworkers 750 STRAIGHT TIME BASE 3.750.00 Hours Linear D&D Workers (2 on Pad. 2 forklift and 625 Hours each 751 OVERTIME BASE & PRE T050 RADIATION CONTROL TECHNOLIGI | KD10H | 776 Complex Steelworkers Linear 82.00 Hours Factors 1 RCTs hours/day OT 82 davs 751 OVERTIME BASE & PRE T060 D&D HAZ REDUC TECH / RISK RED | KD10H | 776 Complex Steelworkers Linear 492.00 Hours D&D Workers (2 on Pad. 2 forklift and 82 davs hours OT/day Factors 6 A5H SUBCONTRACTED SRVS M010 FOREMEN / TEAM LEADS / GROUP K399S Building 776 Project 54,400,00 Dollars Linear 1 Duratek Foreman (Davidson) 680 Hours each dollars per hour P170 OTHER ADMINISTRATIVE & PROFE A5H SUBCONTRACTED SRVS K399S Building 776 Project 58.320.00 Dollars Linear 1 Technical Support (TBD) 729 Dollars/hour A5L RENTALS 0000 NONE K777S Construction I Linear 16.200.00 Dollars Factors 1 Crane per hour (Andy Gergouski) days per month hours 4 months Line Item WOT - Manage B776/777 Drum Transfers Drum transfer will be managed with a dedicated crew consisting of a Foreman, 6 D&D workers, 1 RCT and a Technical Support Administrator. BOE Resources Cost Element Units 750 STRAIGHT TIME BASE M010 FOREMEN / TEAM LEADS / GROUP R100S RMRS Salaried Linear 680.00 Hours Factors 1 RMRS Foreman (Watson) Hours each 750 STRAIGHT TIME BASE P170 OTHER ADMINISTRATIVE & PROFE | R100S | RMRS Salaried 680 00 Hours Linear Factors 1 Tech Support (Geer) 750 STRAIGHT TIME BASE T050 RADIATION CONTROL TECHNOLIGI KD10H 776 Complex Steelworkers 625.00 Hours Linear Factors 1 RCTs Hours Each 750 STRAIGHT TIME BASE T060 D&D HAZ REDUC TECH / RISK RED | KD10H | 776 Complex Steelworkers 3.750.00 Hours Linear D&D Workers Factors 6 Hours each 751 OVERTIME BASE & PRE. M010 FOREMEN / TEAM LEADS / GROUP R100S RMRS Salaried Linear 82.00 Hours Factors 1 RMRS Foreman (Watson) hours OT per day 82.00 Hours 751 OVERTIME BASE & PRE RADIATION CONTROL TECHNOLIGI | KD10H | 776 Complex Steelworkers Linear hours OT per day Factors 1 RCTs davs 751 OVERTIME BASE & PRE T060 D&D HAZ REDUC TECH / RISK RED | KD10H | 776 Complex Steelworkers 492.00 Hours Linear 82 Factors 6 D&D Workers 1 hours OT per day Activity ID: 1DE0010000 Description: FY-01 B776/777 Waste Management Operations Cost Risk 2 Schedule Risk DOE II

Line Item	Description	Quantity	Units	BOE	Labor	Labor Hours	Labor Cost	Materials/ Sub	Contingency	Total Prime	Burden Cost	Total Cost
				Type	Hours/Unit	Total	Total	Cost	& Escalation	Cost		
M08	SNM Site Inventories	2.00	each	EE	400	800	16.963	6.800	0	23.763	8.091	31.855
M09	SNM Facility Specific Inventory	2.00	each	EE	200	400	8.482	3.400	0	11.882	4.046	15.927
SYS	Contingency And Escalation	1.00	ea	EE	0	0	0	0	207.317	207.317	0	207.317
WOA	Manage B776/777 Accumulation Areas	1.00	each	EE	16.410	16.410	397.497	148.500	0	545.997	189.606	735.603
WOI	Integration, Coordination TRU Waste Tech Spt	1.00	each	EE	3.600	3.600	143.424	333.000	0	476.424	68.413	544.837
WOR	Manage B776/777 Res feed Ops	1.00	each	EE	16.929	16.929	420.238	162.000	0	582.238	200.453	782.691
wos	Manage B776/777 SCO/IP2 Transfers/PAD	1.00	each	EE	17.051	17.051	407.216	390.600	0	797.816	194.829	992.645

1.00 each

Total for Activity 1DE0010000:

Line Item M08 - SNM Site Inventories

Manage B776/777 Drum Transfers

BOE

WOT

Historical Data Source - The historical data is from the FY98 actual costs for technical support activity. These costs have been factored to the line item level based on FY99 line item to total technical support quotients. The detailed factoring spreadsheet can be found in B776/777 FY99 Project Summary

21.110

21.110

76.300

523.452

1.917.271

Item Desc - Semi Annual mandatory site inventories of SNM (June/December).

One weeks time for 8 D&D workers, 1 RCT, 1 foreman and one Tech Support

Resources Cost Element Skill Department Curve Quantity Units

1.044.300

523.452

3.168.888

249.687

773.138

4.084.013

WBS No:	1DAE01		Rocky Flats	Closur	e Project	Proiect	Baseline Devl	
Activity ID:	1DE0010000		Baseline Cost ar			WBS Filter	1DAE	
						Activity Filter	*	Starts In FY *
	750 STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	R100S	RMRS Salaried		Linear	40.00 Hours
	Factors 1 Foreman	T050	40 Hours	I/D40II	770.0			10.0011
	Factors 1 RCT	T050	RADIATION CONTROL TECHNOLIGI 40 Hours	KD10H	776 Complex Steelworkers		Linear	40.00 Hours
	750 STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KD10H	776 Complex Steelworkers		Linear	320.00 Hours
	Factors 8 D&D Workers	1 1000	40 Hours	INDION	TTO COMBICA OCCIWONOIS		Linear	320.00H 10413
	A5H SUBCONTRACTED SRVS	E080	NUCLEAR (CRITICALITY) ENGINEER	K399S	Building 776 Project		Linear	3.400.00 Dollars
	Factors 1 Tech Support		40 Hours		85 \$'s/Hour			
Line Item M09	- SNM Facility Specific Inventory							
BOE	Historical Data Source - The histor:	ical da	ta is from the FY99 SNM Invent	cory				
	Item Desc - Semi Annual Facility Spe	cific	Inventories of SNM					
	Teem best bemi mindai raciffey sp.		inventories or sim.					
	One weeks time for 8 D&D workers, 1	RCT, 1	foreman and one Crit Engineer					
Resources	Cost Element		Skill		Department		Curve	Ouantity Units
	750 STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	R100S	RMRS Salaried		Linear	20.00 Hours
	Factors 1 Foreman		20 Hours					
	750 STRAIGHT TIME BASE	T050	RADIATION CONTROL TECHNOLIGI	KD10H	776 Complex Steelworkers		Linear	20.00 Hours
	Factors 1 RCT		20 Hours					T
	750 STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KD10H	776 Complex Steelworkers		Linear	160.00 Hours
	Factors 8 D&D Workers A5H SUBCONTRACTED SRVS	E080	20 Hours NUCLEAR (CRITICALITY) ENGINEER	Kanne	Duilding 776 Drainet		Linear	1,700.00 Dollars
	Factors 1 Engineer	E000	20 Hours	KSSSS	85 \$'s/Hour		Lilleal	1,700.00 Dollars
l ine Item SVS	5 - Contingency And Escalation		20 Hours		85			
BOE	- Contingency And Escalation							
					_			T
Resources			Skill		Department		Curve	Ouantity Units
				1 /DEPT	No Department		Linear	125.798.60 Dollars
	CON CONTINGENCY	0000	INONE		THO DODGITHION		Eliloui	
	Factors 125799 Dollars						1	91 519 26 Dollars
	Factors 125799 Dollars ESC ESCALATION		NONE		No Department		Linear	81.518.26 Dollars
l ine Item WO	Factors 125799 Dollars ESC ESCALATION Factors 81518.3 Dollars						1	81.518.26 Dollars
	Factors 125799 Dollars ESC ESCALATION Factors 81518.3 Dollars A - Manage B776/777 Accumulation Areas	0000	NONE	ZDEPT	No Department	consisting o	Linear	
Line Item WO BOE	Factors 125799 Dollars ESC ESCALATION Factors 81518.3 Dollars	0000	NONE	ZDEPT	No Department	consisting o	Linear	
	Factors 125799 Dollars ESC ESCALATION Factors 81518.3 Dollars A - Manage B776/777 Accumulation Areas Management of the 4 waste accumulation accu	0000	NONE as will be conducted by a dedi	ZDEPT	No Department	consisting o	Linear	
	Factors 125799 Dollars ESC ESCALATION Factors 81518.3 Dollars A - Manage B776/777 Accumulation Areas Management of the 4 waste accumulat.	0000	NONE as will be conducted by a dedi	ZDEPT	No Department	consisting o	Linear	
	Factors 125799 Dollars ESC ESCALATION Factors 81518.3 Dollars A - Manage B776/777 Accumulation Areas Management of the 4 waste accumulation accu	0000 ion area	NONE as will be conducted by a dediday schedule. Skill	ZDEPT	No Department vaste operations crew of the department	consisting o	Linear	
ВОЕ	Factors 125799 Dollars ESC ESCALATION Factors 81518.3 Dollars A - Manage B776/777 Accumulation Areas Management of the 4 waste accumulation accu	0000 ion area	NONE as will be conducted by a dediday schedule.	ZDEPT	No Department	consisting o	Linear f a Foreman, 8 D&D w	workers, 2 RCTs and a
вое	Factors 125799 Dollars ESC ESCALATION Factors 81518.3 Dollars A - Manage B776/777 Accumulation Areas Management of the 4 waste accumulation accu	0000 ion area	NONE as will be conducted by a dediday schedule. Skill OTHER ADMINISTRATIVE & PROFE 1800 Hours	ZDEPT	No Department vaste operations crew of the second s	consisting o	Linear f a Foreman, 8 D&D w Curve Linear	orkers, 2 RCTs and a Ouanity Units 1.800.00 Hours
вое	Factors 125799 Dollars ESC ESCALATION Factors 81518.3 Dollars A - Manage B776/777 Accumulation Areas Management of the 4 waste accumulation accu	0000 ion area	NONE as will be conducted by a dediday schedule. Skill OTHER ADMINISTRATIVE & PROFE 1800 Hours RADIATION CONTROL TECHNOLIGI	ZDEPT	No Department vaste operations crew of the department	consisting o	Linear f a Foreman, 8 D&D w	vorkers, 2 RCTs and a Ouantity Units
вое	Factors 125799 Dollars ESC ESCALATION Factors 81518.3 Dollars A - Manage B776/777 Accumulation Areas Management of the 4 waste accumulation accu	0000 ion area our per P170 T050	NONE as will be conducted by a dediday schedule. Skill OTHER ADMINISTRATIVE & PROFE 1800 Hours RADIATION CONTROL TECHNOLIGI 1760 Hours Each	ZDEPT cated w S100S KD10H	No Department vaste operations crew of the state operations crew operations c	consisting o	Linear f a Foreman, 8 D&D w Curve Linear Linear	Ouantity Units 1.800.00 Hours 3.520.00 Hours
вое	Factors 125799 Dollars ESC ESCALATION Factors 81518.3 Dollars A - Manage B776/777 Accumulation Areas Management of the 4 waste accumulation accu	0000 ion area our per P170 T050	NONE as will be conducted by a dediday schedule. Skill OTHER ADMINISTRATIVE & PROFE 1800 Hours RADIATION CONTROL TECHNOLIGI 1760 Hours Each D&D HAZ REDUC TECH / RISK RED	ZDEPT cated w S100S KD10H	No Department vaste operations crew of the state operations crew operations c	consisting o	Linear f a Foreman, 8 D&D w Curve Linear	orkers, 2 RCTs and a Ouanity Units 1.800.00 Hours
вое	Factors 125799 Dollars ESC ESCALATION Factors 81518.3 Dollars A - Manage B776/777 Accumulation Areas Management of the 4 waste accumulation accu	0000 on area our per P170 T050 T060	NONE as will be conducted by a dediday schedule. Skill OTHER ADMINISTRATIVE & PROFE 1800 Hours RADIATION CONTROL TECHNOLIGI 1760 Hours Each D&D HAZ REDUC TECH / RISK RED 1760 Hours each	ZDEPT cated w S100S KD10H	Department SSOC Salaried 776 Complex Steelworkers	consisting o	Linear f a Foreman, 8 D&D w Curve Linear Linear Linear	Ouantity Units 1.800.00 Hours 7.040.00 Hours
вое	Factors 125799 Dollars ESC ESCALATION Factors 81518.3 Dollars A - Manage B776/777 Accumulation Areas Management of the 4 waste accumulation accu	0000 on area our per P170 T050 T060	NONE as will be conducted by a dediday schedule. Skill OTHER ADMINISTRATIVE & PROFE 1800 Hours RADIATION CONTROL TECHNOLIGI 1760 Hours Each D&D HAZ REDUC TECH / RISK RED 1760 Hours each RADIATION CONTROL TECHNOLIGI	ZDEPT cated w S100S KD10H	No Department Paste operations crew of Department SSOC Salaried 776 Complex Steelworkers 776 Complex Steelworkers	consisting o	Linear f a Foreman, 8 D&D w Curve Linear Linear	Ouantity Units 1.800.00 Hours 3.520.00 Hours
вое	Factors 125799 Dollars ESC ESCALATION Factors 81518.3 Dollars A - Manage B776/777 Accumulation Areas Management of the 4 waste accumulation Technical Support Administrator. These crews will be on an AWS, 12-he Cost Element 750 STRAIGHT TIME BASE Factors 1 Technical Support Essia 750 STRAIGHT TIME BASE Factors 2 RCTs 750 STRAIGHT TIME BASE Factors 4 D&D Workers 751 OVERTIME BASE & PRE Factors 225 Working Davs	0000 100	NONE as will be conducted by a dediday schedule. Skill OTHER ADMINISTRATIVE & PROFE 1800 Hours RADIATION CONTROL TECHNOLIGI 1760 Hours Each D&D HAZ REDUC TECH / RISK RED 1760 Hours each RADIATION CONTROL TECHNOLIGI 3 hours/day OT	ZDEPT cated w S100S KD10H KD10H	Department SSOC Salaried 776 Complex Steelworkers 776 Complex Steelworkers 2 RCTs	consisting o	Linear f a Foreman, 8 D&D w Curve Linear Linear Linear Linear	Ouantity Units 1.800.00 Hours 7.040.00 Hours 1.350.00 Hours
вое	Factors 125799 Dollars ESC ESCALATION Factors 81518.3 Dollars A - Manage B776/777 Accumulation Areas Management of the 4 waste accumulation Technical Support Administrator. These crews will be on an AWS, 12-he Cost Element 750 STRAIGHT TIME BASE Factors 1 Technical Support Essig 750 STRAIGHT TIME BASE Factors 2 RCTs 750 STRAIGHT TIME BASE Factors 4 D&D Workers 751 OVERTIME BASE & PRE Factors 225 Working Days 751 OVERTIME BASE & PRE	0000 on area our per P170 T050 T060	NONE as will be conducted by a dediday schedule. Skill OTHER ADMINISTRATIVE & PROFE 1800 Hours RADIATION CONTROL TECHNOLIGI 1760 Hours Each D&D HAZ REDUC TECH / RISK RED 1760 Hours each RADIATION CONTROL TECHNOLIGI 3 hours/day OT D&D HAZ REDUC TECH / RISK RED	ZDEPT cated w S100S KD10H KD10H	Department SSOC Salaried 776 Complex Steelworkers 776 Complex Steelworkers 2 RCTs 776 Complex Steelworkers	consisting o	Linear f a Foreman, 8 D&D w Curve Linear Linear Linear	Ouantity Units 1.800.00 Hours 7.040.00 Hours
вое	Factors 125799 Dollars ESC ESCALATION Factors 81518.3 Dollars A - Manage B776/777 Accumulation Areas Management of the 4 waste accumulation accu	0000 100	NONE as will be conducted by a dediday schedule. Skill OTHER ADMINISTRATIVE & PROFE 1800 Hours RADIATION CONTROL TECHNOLIGI 1760 Hours Each D&D HAZ REDUC TECH / RISK RED 1760 Hours each RADIATION CONTROL TECHNOLIGI 3 hours/day OT D&D HAZ REDUC TECH / RISK RED 3 hours/day OT	ZDEPT cated w S100S KD10H KD10H KD10H	Department SSOC Salaried 776 Complex Steelworkers 776 Complex Steelworkers 2 RCTs 776 Complex Steelworkers 4 D&D Workers	consisting o	Linear f a Foreman, 8 D&D w Curve Linear Linear Linear Linear Linear	Ouanity Units 1.800.00 Hours 7.040.00 Hours 1.350.00 Hours 2.700.00 Hours
вое	Factors 125799 Dollars ESC ESCALATION Factors 81518.3 Dollars A - Manage B776/777 Accumulation Areas Management of the 4 waste accumulation Technical Support Administrator. These crews will be on an AWS, 12-he Cost Element 750 STRAIGHT TIME BASE Factors 1 Technical Support Essig 750 STRAIGHT TIME BASE Factors 2 RCTs 750 STRAIGHT TIME BASE Factors 4 D&D Workers 751 OVERTIME BASE & PRE Factors 225 Working Days 751 OVERTIME BASE & PRE	0000 100	NONE as will be conducted by a dediday schedule. Skill OTHER ADMINISTRATIVE & PROFE 1800 Hours RADIATION CONTROL TECHNOLIGI 1760 Hours Each D&D HAZ REDUC TECH / RISK RED 1760 Hours each RADIATION CONTROL TECHNOLIGI 3 hours/day OT D&D HAZ REDUC TECH / RISK RED	ZDEPT cated w S100S KD10H KD10H KD10H	Department SSOC Salaried 776 Complex Steelworkers 776 Complex Steelworkers 2 RCTs 776 Complex Steelworkers	consisting o	Linear f a Foreman, 8 D&D w Curve Linear Linear Linear Linear	Ouanity Units 1.800.00 Hours 7.040.00 Hours 1.350.00 Hours 2.700.00 Hours 40.500.00 Dollars
вое	Factors 125799 Dollars ESC ESCALATION Factors 81518.3 Dollars A - Manage B776/777 Accumulation Areas Management of the 4 waste accumulation accu	0000 ion area pur per P170 T050 T060 T060 M010	NONE as will be conducted by a dedicted by a dedic	ZDEPT	Department Department SSOC Salaried 776 Complex Steelworkers 776 Complex Steelworkers 2 RCTs 776 Complex Steelworkers 4 D&D Workers Building 776 Project	consisting o	Linear f a Foreman, 8 D&D w Curve Linear Linear Linear Linear Linear Linear Linear	Ouanity Units 1.800.00 Hours 7.040.00 Hours 1.350.00 Hours 2.700.00 Hours 40.500.00 Dollars
вое	Factors 125799 Dollars ESC ESCALATION Factors 81518.3 Dollars A - Manage B776/777 Accumulation Areas Management of the 4 waste accumulation accu	0000 ion area pur per P170 T050 T060 T060 M010	NONE as will be conducted by a dediday schedule. Skill OTHER ADMINISTRATIVE & PROFE 1800 Hours RADIATION CONTROL TECHNOLIGI 1760 Hours Each D&D HAZ REDUC TECH / RISK RED 1760 Hours each RADIATION CONTROL TECHNOLIGI 3 hours/day OT D&D HAZ REDUC TECH / RISK RED 3 hours/day OT FOREMEN / TEAM LEADS / GROUP 3 hours/day OT	ZDEPT	Department Department SSOC Salaried 776 Complex Steelworkers 776 Complex Steelworkers 2 RCTs 776 Complex Steelworkers 4 D&D Workers Building 776 Project 1 Foreman	consisting o	Linear Curve Linear Linear Linear Linear Linear Linear Linear Linear Linear Additional Linear Linear Linear Linear Linear Linear Linear Linear Linear Linear	Ouantity Units 1.800.00 Hours 7.040.00 Hours 1.350.00 Hours 2.700.00 Hours 40.500.00 Dollars
Resources	Factors 125799 Dollars ESC ESCALATION Factors 81518.3 Dollars A - Manage B776/777 Accumulation Areas Management of the 4 waste accumulation accu	0000 100 area 10	NONE Skill OTHER ADMINISTRATIVE & PROFE 1800 Hours RADIATION CONTROL TECHNOLIGI 1760 Hours Each D&D HAZ REDUC TECH / RISK RED 1760 Hours each RADIATION CONTROL TECHNOLIGI 3 hours/day OT D&D HAZ REDUC TECH / RISK RED 3 hours/day OT FOREMEN / TEAM LEADS / GROUP 1800 Hours each	ZDEPT Cated w S100S KD10H KD10H KD10H KD10H K399S R100S	Department Department SSOC Salaried T76 Complex Steelworkers T76 Complex Steelworkers 2 RCTs T76 Complex Steelworkers 4 D&D Workers Building T76 Project 1 Foreman RMRS Salaried 60 Dollars per hour		Linear Curve Linear	Ouantity Units 1.800.00 Hours 3.520.00 Hours 7.040.00 Hours 1.350.00 Hours 2.700.00 Hours 40.500.00 Dollars 108.000.00 Dollars

WBS No: 1DAE01 Baseline Devl Proiect **Rocky Flats Closure Project** 1DE0010000 1DAE Activity ID: WBS Filter **Baseline Cost and Basis of Estimate** Activity Filter a technical support administrator. Resources Cost Element Skill Department Curve M020 MANAGERS (GRADE 69 - 72) K399S Building 776 Project 750 STRAIGHT TIME BASE Linear

Factors 1 RMRS Material Movement Scheduler 1800 Hours A5H SUBCONTRACTED SRVS M020 MANAGERS (GRADE 69 - 72) K399S Building 776 Project

Integration Coordinator (TBD) 1800 Hours Dollars per hour A5H SUBCONTRACTED SRVS P170 OTHER ADMINISTRATIVE & PROFE K399S Building 776 Project Linear Technical Support West 1800 Hours Dollars/hour Factors

P170 OTHER ADMINISTRATIVE & PROFE R100S RMRS Salaried

Line Item WOR - Manage B776/777 Res feed Ops

750 STRAIGHT TIME BASE

BOE

Management of the residue feed drums will be conducted by a dedicated waste operations crew consisting of a Foreman, 4 D&D workers, 2 RCTs and a Technical Support Administrator.

These crews will be on an AWS, 12-hour per day schedule.

Factors 1800 Hours Waste Operations Lead Ferrari

Resources

es		Cost Element		Skill		Department	Curve	Ouantity Units
	750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	R100S	RMRS Salaried	Linear	1.824.00 Hours
F_{ϵ}	actors	1 Foreman TBD		1824 Hours each				
	750	STRAIGHT TIME BASE	T050	RADIATION CONTROL TECHNOLIGI	KD10H	776 Complex Steelworkers	Linear	3.460.00 Hours
F_{ϵ}	actors	2 RCTs		1730 Hours Each				
	750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KD10H	776 Complex Steelworkers	Linear	6.920.00 Hours
F_{i}	actors	4 D&D Workers		1730 Hours each	,			
	751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	R100S	RMRS Salaried	Linear	675.00 Hours
F_{i}	actors	1 Foreman		225 davs	,	3 Hrs OT/dav		
	751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLIGI	KD10H	776 Complex Steelworkers	Linear	1.350.00 Hours
F_{i}	actors	2 RCTs		225 davs	,	3 Hrs OT/dav		
	751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KD10H	776 Complex Steelworkers	Linear	2.700.00 Hours
F_{i}	actors	4 D&D Workers		225 davs	,	3 Hrs OT/dav		
	A5H	SUBCONTRACTED SRVS	P170	OTHER ADMINISTRATIVE & PROFE	K399S	Building 776 Proiect	Linear	162.000.00 Dollars
F_{ϵ}	actors	1 Tech Spt (Uetrecht) Chew 8	& Assoc	1800 Hours		90 Dollars/hour		

Line Item WOS - Manage B776/777 SCO/IP2 Transfers/PAD

BOE

Management of SCO containers and the 779 Pad will be conducted by a dedicated waste operations crew consisting of a Foreman, 6 D&D workers, 1 RCTs and a Technical Support Administrator.

These crews will be on an AWS, 12-hour per day schedule.

Resources

s	Cost Element		Skill		Departn	nent	Curve	Ouantity	Units
750	STRAIGHT TIME BASE	L050 MIS	SION SUP SPEC I (CBLFAB.DSP.	K777C	Construction		Linear	216.00	Hours
Factors	1 K-H Const Heavy Equip Op	erator 12	2 months		2 davs per	month 9	hours per day		
750	STRAIGHT TIME BASE	T050 RAD	DIATION CONTROL TECHNOLIGI	KD10H	776 Complex Steel	workers	Linear	1.730.00	Hours
Factors	s 1 RCTs	17	730 Hours Each		T				
750	STRAIGHT TIME BASE	T060 D&E	HAZ REDUC TECH / RISK RED	KD10H	776 Complex Steel	workers	Linear	10.380.00	Hours
Factors	6 D&D Workers (2 on Pad. 2	forklift and 17	730 Hours each		T				
751	OVERTIME BASE & PRE.	T050 RAD	DIATION CONTROL TECHNOLIGI	KD10H	776 Complex Steel	workers	Linear	675.00	Hours
Factors	s 1 RCTs	22	25 davs		3 hours/day	v OT			
751	OVERTIME BASE & PRE.	T060 D&E	HAZ REDUC TECH / RISK RED	KD10H	776 Complex Steel	workers	Linear	4.050.00	Hours
Factors	6 D&D Workers (2 on Pad. 2	forklift and 22	25 davs		3 hours OT	-/dav			
A5H	SUBCONTRACTED SRVS	M010 FOF	REMEN / TEAM LEADS / GROUP	K399S	Buildina 776 Proied	et	Linear	144.000.00	Dollars
Factors	 Duratek Foreman (Davidso 	n) 18	300 Hours each		80 dollars pe	er hour			
A5H	SUBCONTRACTED SRVS	M010 FOF	REMEN / TEAM LEADS / GROUP	K399S	Buildina 776 Proied	et	Linear	54.000.00	Dollars
Factors	 Duratek Foreman (Davidso 	n) 22	25 davs		3 hours OT	/dav 80	dollars per hour		
A5H	SUBCONTRACTED SRVS	P170 OTH	HER ADMINISTRATIVE & PROFE	K399S	Buildina 776 Proied	t	Linear	144.000.00	Dollars
Factors	5 1 Technical Support (TBD)	18	300 Hours		80 Dollars/h	our			

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Starts In FY

1.800.00 Hours

1.800.00 Hours

153.000.00 Dollars

180.000.00 Dollars

Linear

Linear

Units

WBS No: 1DAE01 Baseline Devl Proiect Rocky Flats Closure Project Activity ID: 1DE0010000 WBS Filter 1DAE **Baseline Cost and Basis of Estimate** Activity Filter Starts In FY A5L RENTALS 0000 NONE K777S Construction I 48.600.00 Dollars Linear Factors 1 Crane per hour (Andy Gergouski) days per month 9 hours 12 months Line Item WOT - Manage B776/777 Drum Transfers Drum transfer will be managed with a dedicated crew consisting of a Foreman, 6 D&D workers, 1 RCT and a Technical Support Administrator. BOE Resources Cost Element Department Curve Ouantity Units 750 STRAIGHT TIME BASE M010 FOREMEN / TEAM LEADS / GROUP R100S RMRS Salaried 1.800.00 Hours Linear RMRS Foreman (Watson) 1800 Hours each Factors 1 1.800.00 Hours 750 STRAIGHT TIME BASE P170 OTHER ADMINISTRATIVE & PROFE R100S RMRS Salaried Linear Tech Support (Geer) Factors 1 1800 hours 750 STRAIGHT TIME BASE T050 RADIATION CONTROL TECHNOLIGI | KD10H | 776 Complex Steelworkers Linear 1.730.00 Hours 1730 Hours Each Factors 1 RCTs 750 STRAIGHT TIME BASE T060 D&D HAZ REDUC TECH / RISK RED | KD10H | 776 Complex Steelworkers 10 380 00 Hours Linear Factors 6 D&D Workers 1730 Hours each M010 FOREMEN / TEAM LEADS / GROUP R100S RMRS Salaried 675.00 Hours 751 OVERTIME BASE & PRE. Linear Factors 1 RMRS Foreman (Watson) davs hours OT per day 675.00 Hours 751 OVERTIME BASE & PRE. RADIATION CONTROL TECHNOLIGI KD10H 776 Complex Steelworkers Linear RCTs hours OT per day Factors 1 davs 751 OVERTIME BASE & PRE T060 D&D HAZ REDUC TECH / RISK RED | KD10H | 776 Complex Steelworkers Linear 4.050.00 Hours Factors 6 **D&D** Workers 225 davs 3 hours OT per day Activity ID: 1DE0020000 2 Schedule Risk Description: FY-02 B776/777 Waste Management Operations Cost Risk Line Item Description **Ouantity** BOELabor Labor Hours Labor Cost Materials/ Sub Contingency Total Prime Burden Cost Total Cost Hours/Unit Total Total Cost & Escalation TypeCost M08 SNM Site Inventories 2.00 each EE 400 800 16.963 6.800 0 23.763 5.988 29.751 SNM Facility Specific Inventory 2.00 each EE 200 400 8.482 3.400 11.882 2.994 M09 0 14.876 FF SYS Contingency And Escalation 1.00 ea 0 0 0 0 549.814 549.814 0 549.814 EE WOA Manage B776/777 Accumulation Areas 1.00 each 16.410 16.410 397.497 148.500 n 545.997 140.316 686.313 WOI Integration, Coordination TRU Waste Tech Spt 1.00 each FF 3.600 3.600 143.424 333.000 476.424 50.629 527.053 n EE 421.445 WOR Manage B776/777 Res feed Ops 1.00 each 16.985 16.985 162,000 583.445 148.770 732.215 0 wos Manage B776/777 SCO/IP2 Transfers/PAD 1.00 each EE 17.051 17.051 407.216 390.600 n 797.816 144.827 942.643 Manage B776/777 Drum Transfers FF 523.452 WOT 1.00 each 21.110 21.110 523.452 184.778 708.230 n n Total for Activity 1DE0020000: 76.356 1.918.478 1.044.300 549.814 3.512.593 678.303 4.190.895 Line Item M08 - SNM Site Inventories Historical Data Source - The historical data is from the FY98 actual costs for technical support activity. These costs have been factored to the line item BOE level based on FY99 line item to total technical support quotients. The detailed factoring spreadsheet can be found in B776/777 FY99 Project Summary Document - Rev 0. Item Desc - Semi Annual mandatory site inventories of SNM (June/December). One weeks time for 8 D&D workers, 1 RCT, 1 foreman and one Tech Support Cost Element Curve Skill Units Resources Department 750 STRAIGHT TIME BASE M010 FOREMEN / TEAM LEADS / GROUP R100S RMRS Salaried Linear 40.00 Hours Factors 1 Foreman Hours 750 STRAIGHT TIME BASE T050 RADIATION CONTROL TECHNOLIGI | KD10H | 776 Complex Steelworkers 40.00 Hours Linear Factors 1 RCT

D&D HAZ REDUC TECH / RISK RED | KD10H | 776 Complex Steelworkers

\$'s/Hour

NUCLEAR (CRITICALITY) ENGINEER | K399S | Building 776 Project

Line Item M09 - SNM Facility Specific Inventory

Factors 1

8

750 STRAIGHT TIME BASE

A5H SUBCONTRACTED SRVS

D&D Workers

Tech Support

BOE Historical Data Source - The historical data is from the FY99 SNM Inventory

Item Desc - Semi Annual Facility Specific Inventories of SNM.

T060

40

Hours

Linear

Linear

320.00 Hours

3 400 00 Dollars

WBS No: 1DAE01 Baseline Devl Proiect Rocky Flats Closure Project 1DAE Activity ID: 1DE0020000 WBS Filter **Baseline Cost and Basis of Estimate** <u>Activ</u>ity Filter Starts In FY * One weeks time for 8 D&D workers, 1 RCT, 1 foreman and one Crit Engineer Resources Cost Element Units 750 STRAIGHT TIME BASE M010 FOREMEN / TEAM LEADS / GROUP R100S RMRS Salaried 20.00 Hours Linear Foreman Hours Factors 1 750 STRAIGHT TIME BASE T050 RADIATION CONTROL TECHNOLIGI | KD10H | 776 Complex Steelworkers Linear 20.00 Hours RCT Factors 1 D&D HAZ REDUC TECH / RISK RED | KD10H | 776 Complex Steelworkers 160.00 Hours 750 STRAIGHT TIME BASE Linear Factors 8 D&D Workers Hours A5H SUBCONTRACTED SRVS E080 NUCLEAR (CRITICALITY) ENGINEER K399S Building 776 Project 1.700.00 Dollars Linear Factors 1 Engineer 20 Hours \$'s/Hour Line Item SYS - Contingency And Escalation BOE Units Cost Element Skill Curve Resources Department ZDEPT No Department 379.661.30 Dollars CON CONTINGENCY 0000 NONE Linear Factors 379661 Dollars ESC ESCALATION 0000 NONE ZDEPT No Department 170.153.00 Dollars Linear Factors 170153 Dollars Line Item WOA - Manage B776/777 Accumulation Areas Management of the 4 waste accumulation areas will be conducted by a dedicated waste operations crew consisting of a Foreman, 8 D&D workers, 2 RCTs and a BOE Technical Support Administrator. These crews will be on an AWS, 12-hour per day schedule. Cost Element Quantity Units Resources Denartment Curve 750 STRAIGHT TIME BASE P170 OTHER ADMINISTRATIVE & PROFE S100S SSOC Salaried Linear 1.800.00 Hours Technical Support Essig Hours 750 STRAIGHT TIME BASE RADIATION CONTROL TECHNOLIGI KD10H 776 Complex Steelworkers 3.520.00 Hours Linear 2 RCTs 1760 Hours Each Factors 750 STRAIGHT TIME BASE T060 D&D HAZ REDUC TECH / RISK RED | KD10H | 776 Complex Steelworkers 7.040.00 Hours Linear D&D Workers Factors 4 1760 Hours each 751 OVERTIME BASE & PRE T050 RADIATION CONTROL TECHNOLIGI KD10H 776 Complex Steelworkers Linear 1.350.00 Hours 225 Working Days hours/day OT RCTs 751 OVERTIME BASE & PRE T060 D&D HAZ REDUC TECH / RISK RED KD10H 776 Complex Steelworkers Linear 2 700 00 Hours Working Davs hours/day OT D&D Workers 225 A5H SUBCONTRACTED SRVS M010 FOREMEN / TEAM LEADS / GROUP K399S Building 776 Project Linear 40.500.00 Dollars 225 Working Days hours/day OT Foreman 60 dollars per hour A5H SUBCONTRACTED SRVS M010 FOREMEN / TEAM LEADS / GROUP R100S RMRS Salaried 108.000.00 Dollars Factors Foreman Schmiechen 1800 Hours each 60 Dollars per hour Line Item WOI - Integration, Coordination TRU Waste Tech Spt Waste Operations Integration and coordination will be conducted by A Waste Operations Lead, a Waste Operations Coordinator, a material movement scheduler and BOE a technical support administrator. Resources Cost Element Units 750 STRAIGHT TIME BASE M020 MANAGERS (GRADE 69 - 72) K399S Building 776 Project Linear 1.800.00 Hours 1800 Hours Waste Operations Lead Ferrari 750 STRAIGHT TIME BASE P170 OTHER ADMINISTRATIVE & PROFE R100S RMRS Salaried 1.800.00 Hours Linear RMRS Material Movement Scheduler 1800 Hours Factors A5H SUBCONTRACTED SRVS M020 MANAGERS (GRADE 69 - 72) 153.000.00 Dollars K399S Building 776 Project Linear

Integration Coordinator (TBD)

Technical Support West

A5H SUBCONTRACTED SRVS

Factors

1800 Hours

P170 OTHER ADMINISTRATIVE & PROFE

Hours

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Linear

180.000.00 Dollars

Dollars per hour

Dollars/hour

K399S Building 776 Project

WBS No: 1DAE01 1DE0020000 Activity ID:

Rocky Flats Closure Project Baseline Cost and Basis of Estimate

Proiect WBS Filter Activity Filter

Baseline Devl 1DAE

Starts In FY *

Line Item WOR - Manage B776/777 Res feed Ops

BOE

Management of the residue feed drums will be conducted by a dedicated waste operations crew consisting of a Foreman, 4 D&D workers, 2 RCTs and a Technical Support Administrator.

These crews will be on an AWS, 12-hour per day schedule.

Resources

es	Cost Element		Skill		Department	Curve	Ouantity Units
750	STRAIGHT TIME BASE	M010	FOREMEN / TEAM LEADS / GROUP	R100S	RMRS Salaried	Linear	1.832.00 Hours
Factor.	s 1 Foreman		1832 Hours each	,			
750	STRAIGHT TIME BASE	T050	RADIATION CONTROL TECHNOLIGI	KD10H	776 Complex Steelworkers	Linear	3.476.00 Hours
Factor.	s 2 RCTs		1738 Hours Each	,			
750	STRAIGHT TIME BASE	T060	D&D HAZ REDUC TECH / RISK RED	KD10H	776 Complex Steelworkers	Linear	6.952.00 Hours
Factor.	s 4 D&D Workers		1738 Hours each	I			
751	OVERTIME BASE & PRE.	M010	FOREMEN / TEAM LEADS / GROUP	R100S	RMRS Salaried	Linear	675.00 Hours
Factor.	s 1 Foreman		225 davs	I	3 Hrs OT/dav		
751	OVERTIME BASE & PRE.	T050	RADIATION CONTROL TECHNOLIGI	KD10H	776 Complex Steelworkers	Linear	1.350.00 Hours
Factor.	s 2 RCTs		225 davs	I	3 Hrs OT/dav		
751	OVERTIME BASE & PRE.	T060	D&D HAZ REDUC TECH / RISK RED	KD10H	776 Complex Steelworkers	Linear	2.700.00 Hours
Factor.	s 4 D&D Workers		225 davs	I	3 Hrs OT/dav		
A5H	SUBCONTRACTED SRVS	P170	OTHER ADMINISTRATIVE & PROFE	K399S	Building 776 Project	Linear	162.000.00 Dollars
Factor.	5 1 Tech Spt (Uetrecht) Chew 8	& Assoc	1800 Hours		90 Dollars/hour		

Line Item WOS - Manage B776/777 SCO/IP2 Transfers/PAD

BOE

Management of SCO containers and the 779 Pad will be conducted by a dedicated waste operations crew consisting of a Foreman, 6 D&D workers, 1 RCTs and a Technical Support Administrator.

These crews will be on an AWS, 12-hour per day schedule.

Resources

es		Cost Element			Skill			Department		Curve	Ouantity	Units
L	750	STRAIGHT TIME BASE	L050	MISSION	SUP SPEC I (CBLFAB.DSP.	K777C	Constru	ction		Linear	216.00	Hours
ز	Factors	1 K-H Const Heavy Equip On	erator	12	months		2	davs per month	9	hours per day		
L	750	STRAIGHT TIME BASE	T050	RADIATIO	N CONTROL TECHNOLIGI	KD10H	776 Con	nplex Steelworkers		Linear	1.730.00	Hours
نے	Factors	1 RCTs		1730	Hours Each				,			
L	750	STRAIGHT TIME BASE	T060	D&D HAZ	REDUC TECH / RISK RED	KD10H	776 Con	nplex Steelworkers		Linear	10.380.00	Hours
į	Factors	6 D&D Workers (2 on Pad. 2	forklift	1730	Hours each				,			
L	751	OVERTIME BASE & PRE.	T050	RADIATIO	N CONTROL TECHNOLIGI	KD10H	776 Con	nplex Steelworkers		Linear	675.00	Hours
į	Factors	1 RCTs		225	davs		3	hours/dav OT	,			
L	751	OVERTIME BASE & PRE.	T060	D&D HAZ	REDUC TECH / RISK RED	KD10H	776 Con	nplex Steelworkers		Linear	4.050.00	Hours
į	Factors	6 D&D Workers (2 on Pad. 2	forklift ar	nd 225	davs		3	hours OT/dav	,			
L	A5H	SUBCONTRACTED SRVS	M010	FOREMEN	N / TEAM LEADS / GROUP	K399S	Buildina	776 Proiect		Linear	144.000.00	Dollars
į	Factors	1 Duratek Foreman (Davidso	n)	1800	Hours each		80	dollars per hour	,			
L	A5H	SUBCONTRACTED SRVS	M010	FOREMEN	N / TEAM LEADS / GROUP	K399S	Buildina	776 Proiect		Linear	54.000.00	Dollars
į	Factors	1 Duratek Foreman (Davidso	n)	225	davs		3	hours OT/dav	80	dollars per ho	ur	
L	A5H	SUBCONTRACTED SRVS	P170	OTHER A	DMINISTRATIVE & PROFE	K399S	Building	776 Project		Linear	144,000.00	Dollars
į	Factors	1 Technical Support (TBD)		1800	Hours		80	Dollars/hour	,			
L	A5L	RENTALS	0000	NONE		K777S	Constru	ction I		Linear	48,600.00	Dollars
	Factors	1 Crane		225	per hour (Andy Gergouski)		2	days per month	9	hours		
		12 months										

Line Item WOT - Manage B776/777 Drum Transfers

Drum transfer will be managed with a dedicated crew consisting of a Foreman, 6 D&D workers, 1 RCT and a Technical Support Administrator. BOE

Resources

es		Cost Element			Skill		Department	Curve	Quantity	Units	l
	750	STRAIGHT TIME BASE	M010	FOREME	N / TEAM LEADS / GROUP	R100S	RMRS Salaried	Linear	1.800.00	Hours	J
	Factors	1 RMRS Foreman (Watson)		1800	Hours each	,				,	,
	750	STRAIGHT TIME BASE	P170	OTHER A	DMINISTRATIVE & PROFE	R100S	RMRS Salaried	Linear	1.800.00	Hours	J
	Factors	 Tech Support (Geer) 		1800	hours						

WBS No: 1DAE01 Baseline Devl Proiect Rocky Flats Closure Project 1DE0020000 1DAE Activity ID: WBS Filter **Baseline Cost and Basis of Estimate** Activity Filter Starts In FY 750 STRAIGHT TIME BASE T050 RADIATION CONTROL TECHNOLIGI | KD10H | 776 Complex Steelworkers 1.730.00 Hours Linear RCTs 1730 Hours Each T060 D&D HAZ REDUC TECH / RISK RED | KD10H | 776 Complex Steelworkers 750 STRAIGHT TIME BASE Linear 10.380.00 Hours D&D Workers 1730 Hours each Factors 751 OVERTIME BASE & PRE M010 FOREMEN / TEAM LEADS / GROUP R100S RMRS Salaried Linear 675.00 Hours RMRS Foreman (Watson) hours OT per day Factors 1 davs 751 OVERTIME BASE & PRE. T050 RADIATION CONTROL TECHNOLIGI | KD10H | 776 Complex Steelworkers Linear 675.00 Hours **RCTs** davs hours OT per day Factors 1 751 OVERTIME BASE & PRE T060 D&D HAZ REDUC TECH / RISK RED 4.050.00 Hours KD10H 776 Complex Steelworkers Linear Factors 6 D&D Workers 225 days hours OT per day Activity ID: 1DE0030000 Description: FY-03 B776/777 Waste Management Operations Cost Risk 2 Schedule Risk 3 BOE Labor Labor Hours Contingency Total Prime Line Item Description **Ouantity** Labor Cost Materials/ Sub Burden Cost Total Cost Type Hours/Unit **Total Total** Cost & Escalation Cost M08 SNM Site Inventories 2.00 each EE 400 800 16.963 6.800 23.763 5.869 29.632 2.00 each EE 2.935 M09 SNM Facility Specific Inventory 200 400 8.482 3.400 0 11.882 14.816 SYS Contingency And Escalation 1.00 ea EE Λ 0 1.015.457 1.015.457 1.015.457 FF WOA Manage B776/777 Accumulation Areas 16.410 148.500 545.997 683.531 1.00 each 16.410 397.497 137.534 WOI Integration, Coordination TRU Waste Tech Spt 1.00 each EE 3.600 3.600 143,424 333.000 49.625 526.049 n 476.424 WOR Manage B776/777 Res feed Ops 1.00 each EE 16.937 16.937 420.458 162.000 0 582.458 145.479 727.937 EE WOS Manage B776/777 SCO/IP2 Transfers/PAD 1.00 each 17.051 17.051 407.216 390,600 0 797.816 142.004 939.820 WOT Manage B776/777 Drum Transfers 1.00 each 21.110 21.110 523.452 0 523.452 181.114 704.566 Total for Activity 1DE0030000: 1.917.492 76,308 1,044,300 1,015,457 3,977,249 664.560 4.641.809 Line Item M08 - SNM Site Inventories Historical Data Source - The historical data is from the FY98 actual costs for technical support activity. These costs have been factored to the line item BOE level based on FY99 line item to total technical support quotients. The detailed factoring spreadsheet can be found in B776/777 FY99 Project Summary Document - Rev 0. Item Desc - Semi Annual mandatory site inventories of SNM (June/December). One weeks time for 8 D&D workers, 1 RCT, 1 foreman and one Tech Support Resources Cost Element Department Units 750 STRAIGHT TIME BASE M010 FOREMEN / TEAM LEADS / GROUP R100S RMRS Salaried 40.00 Hours Linear Foreman RADIATION CONTROL TECHNOLIGI | KD10H | 776 Complex Steelworkers 40.00 Hours 750 STRAIGHT TIME BASE Linear RCT Hours 750 STRAIGHT TIME BASE D&D HAZ REDUC TECH / RISK RED | KD10H | 776 Complex Steelworkers Linear 320.00 Hours Factors 8 D&D Workers Hours A5H SUBCONTRACTED SRVS E080 NUCLEAR (CRITICALITY) ENGINEER K399S Building 776 Project 3.400.00 Dollars Linear Factors 1 Tech Support Hours 85 \$'s/Hour Line Item M09 - SNM Facility Specific Inventory Historical Data Source - The historical data is from the FY99 SNM Inventory BOE Item Desc - Semi Annual Facility Specific Inventories of SNM. One weeks time for 8 D&D workers, 1 RCT, 1 foreman and one Crit Engineer Units Resources Cost Element Department Curve **Ouantity** 20.00 Hours 750 STRAIGHT TIME BASE FOREMEN / TEAM LEADS / GROUP R100S RMRS Salaried Linear Foreman Hours Factors 1 750 STRAIGHT TIME BASE RADIATION CONTROL TECHNOLIGI | KD10H | 776 Complex Steelworkers 20.00 Hours Linear

D&D HAZ REDUC TECH / RISK RED | KD10H | 776 Complex Steelworkers

Hours

Hours

20

Factors

Factors 8

RCT

D&D Workers

750 STRAIGHT TIME BASE

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Linear

160.00 Hours

WBS No: 1DAE01 Baseline Devl Proiect Rocky Flats Closure Project 1DE0030000 1DAE Activity ID: WBS Filter **Baseline Cost and Basis of Estimate** Activity Filter Starts In FY A5H SUBCONTRACTED SRVS E080 NUCLEAR (CRITICALITY) ENGINEER K399S Building 776 Project 1.700.00 Dollars Linear Engineer Hours \$'s/Hour Line Item SYS - Contingency And Escalation BOE Resources Cost Element Skill Units Denartment Curve CON CONTINGENCY 0000 NONE ZDEPT No Department 737.369.40 Dollars Linear 737369 Dollars ESC ESCALATION 0000 NONE ZDEPT No Department 278.087.70 Dollars Linear Factors 278088 Dollars Line Item WOA - Manage B776/777 Accumulation Areas Management of the 4 waste accumulation areas will be conducted by a dedicated waste operations crew consisting of a Foreman, 8 D&D workers, 2 RCTs and a BOE Technical Support Administrator. These crews will be on an AWS, 12-hour per day schedule. Units Cost Element Resources Department Curve 750 STRAIGHT TIME BASE P170 OTHER ADMINISTRATIVE & PROFE S100S SSOC Salaried Linear 1.800.00 Hours Technical Support Essig Hours RADIATION CONTROL TECHNOLIGI | KD10H | 776 Complex Steelworkers 3.520.00 Hours 750 STRAIGHT TIME BASE Linear 2 **RCTs** Hours Each 750 STRAIGHT TIME BASE T060 D&D HAZ REDUC TECH / RISK RED KD10H 776 Complex Steelworkers 7.040.00 Hours Linear D&D Workers 1760 Hours each Factors 751 OVERTIME BASE & PRE T050 RADIATION CONTROL TECHNOLIGI KD10H 776 Complex Steelworkers Linear 1.350.00 Hours Working Days hours/day OT 225 751 OVERTIME BASE & PRE D&D HAZ REDUC TECH / RISK RED KD10H 776 Complex Steelworkers Linear 2.700.00 Hours 225 Working Davs hours/day OT D&D Workers Factors A5H SUBCONTRACTED SRVS FOREMEN / TEAM LEADS / GROUP K399S Building 776 Project Linear 40.500.00 Dollars 225 Working Days hours/day OT Foreman 60 dollars per hour M010 FOREMEN / TEAM LEADS / GROUP R100S RMRS Salaried A5H SUBCONTRACTED SRVS 108,000,00 Dollars Factors Foreman Schmiechen 1800 Hours each 60 Dollars per hour Line Item WOI - Integration, Coordination TRU Waste Tech Spt Waste Operations Integration and coordination will be conducted by A Waste Operations Lead, a Waste Operations Coordinator, a material movement scheduler and BOE a technical support administrator. Resources Cost Element Skill Curve Units Department 750 STRAIGHT TIME BASE M020 MANAGERS (GRADE 69 - 72) K399S Building 776 Project 1.800.00 Hours Linear 1800 Hours Waste Operations Lead Ferrari P170 OTHER ADMINISTRATIVE & PROFE R100S RMRS Salaried 750 STRAIGHT TIME BASE 1.800.00 Hours Linear Factors RMRS Material Movement Scheduler 1800 Hours A5H SUBCONTRACTED SRVS M020 MANAGERS (GRADE 69 - 72) K399S Building 776 Project Linear 153,000,00 Dollars Dollars per hour Integration Coordinator (TBD) 1800 Hours 85 A5H SUBCONTRACTED SRVS P170 OTHER ADMINISTRATIVE & PROFE K399S Building 776 Project Linear 180,000,00 Dollars 1800 Hours 100 Dollars/hour Factors **Technical Support West** Line Item WOR - Manage B776/777 Res feed Ops Management of the residue feed drums will be conducted by a dedicated waste operations crew consisting of a Foreman, 4 D&D workers, 2 RCTs and a Technical BOE Support Administrator. These crews will be on an AWS, 12-hour per day schedule. Resources Cost Element Department Curve **Ouantity** Units 750 STRAIGHT TIME BASE M010 FOREMEN / TEAM LEADS / GROUP R100S RMRS Salaried 1.832.00 Hours Linear Foreman 1832 Hours each Factors 750 STRAIGHT TIME BASE RADIATION CONTROL TECHNOLIGI KD10H 776 Complex Steelworkers Linear 3.460.00 Hours Hours Each **RCTs** 1730 Factors

WBS No: 1DAE01 Proiect Baseline Devl Rocky Flats Closure Project Activity ID: 1DE0030000 WBS Filter 1DAE **Baseline Cost and Basis of Estimate** Activity Filter Starts In FY 750 STRAIGHT TIME BASE T060 D&D HAZ REDUC TECH / RISK RED | KD10H | 776 Complex Steelworkers 6.920.00 Hours Linear D&D Workers 1730 Hours each 751 OVERTIME BASE & PRE M010 FOREMEN / TEAM LEADS / GROUP R100S RMRS Salaried 675.00 Hours Linear Foreman Hrs OT/day 751 OVERTIME BASE & PRE T050 RADIATION CONTROL TECHNOLIGI KD10H 776 Complex Steelworkers Linear 1.350.00 Hours Hrs OT/dav Factors 2 RCTs davs D&D HAZ REDUC TECH / RISK RED | KD10H | 776 Complex Steelworkers 751 OVERTIME BASE & PRE Linear 2.700.00 Hours **D&D Workers** Hrs OT/day Factors 4 A5H SUBCONTRACTED SRVS K399S Building 776 Project P170 OTHER ADMINISTRATIVE & PROFE 162,000,00 Dollars Linear Tech Spt (Uetrecht) Chew & Assoc 1800 Hours Dollars/hour Factors Line Item WOS - Manage B776/777 SCO/IP2 Transfers/PAD Management of SCO containers and the 779 Pad will be conducted by a dedicated waste operations crew consisting of a Foreman, 6 D&D workers, 1 RCTs and a BOE Technical Support Administrator. These crews will be on an AWS, 12-hour per day schedule. Units Resources Cost Element Quantity 750 STRAIGHT TIME BASE L050 MISSION SUP SPEC I (CBLFAB.DSP. K777C Construction Linear 216.00 Hours K-H Const Heavy Equip Operator hours per day 12 750 STRAIGHT TIME BASE T050 RADIATION CONTROL TECHNOLIGI | KD10H | 776 Complex Steelworkers Linear 1.730.00 Hours 1730 Hours Each Factors 1 RCTs T060 D&D HAZ REDUC TECH / RISK RED | KD10H | 776 Complex Steelworkers 750 STRAIGHT TIME BASE 10.380.00 Hours Linear D&D Workers (2 on Pad. 2 forklift and 1730 Hours each T050 RADIATION CONTROL TECHNOLIGI 751 OVERTIME BASE & PRE KD10H 776 Complex Steelworkers 675.00 Hours Linear **RCTs** hours/day OT Factors 1 davs 751 OVERTIME BASE & PRE T060 D&D HAZ REDUC TECH / RISK RED KD10H 776 Complex Steelworkers Linear 4.050.00 Hours D&D Workers (2 on Pad, 2 forklift and 225 hours OT/day A5H SUBCONTRACTED SRVS M010 FOREMEN / TEAM LEADS / GROUP K399S Building 776 Project Linear 144,000,00 Dollars Duratek Foreman (Davidson) 1800 Hours each dollars per hour Factors 1 A5H SUBCONTRACTED SRVS M010 FOREMEN / TEAM LEADS / GROUP K399S Building 776 Project Linear 54.000.00 Dollars Duratek Foreman (Davidson) 225 davs hours OT/day dollars per hour A5H SUBCONTRACTED SRVS P170 OTHER ADMINISTRATIVE & PROFE K399S Building 776 Project Linear 144,000,00 Dollars Factors 1 Technical Support (TBD) 1800 Hours Dollars/hour A5L RENTALS 48.600.00 Dollars 0000 NONE K777S Construction I Linear Factors 1 Crane per hour (Andy Gergouski) days per month hours 12 months Line Item WOT - Manage B776/777 Drum Transfers Drum transfer will be managed with a dedicated crew consisting of a Foreman, 6 D&D workers, 1 RCT and a Technical Support Administrator. BOE Cost Element Units Resources Curve Departmen 750 STRAIGHT TIME BASE M010 FOREMEN / TEAM LEADS / GROUP R100S RMRS Salaried Linear 1.800.00 Hours RMRS Foreman (Watson) 1800 Hours each 750 STRAIGHT TIME BASE P170 OTHER ADMINISTRATIVE & PROFE R100S RMRS Salaried Linear 1.800.00 Hours 1 Tech Support (Geer) 750 STRAIGHT TIME BASE T050 RADIATION CONTROL TECHNOLIGI | KD10H | 776 Complex Steelworkers Linear 1.730.00 Hours Factors 1 RCTs 1730 Hours Each T060 D&D HAZ REDUC TECH / RISK RED | KD10H | 776 Complex Steelworkers 750 STRAIGHT TIME BASE 10.380.00 Hours Linear D&D Workers 6 1730 Hours each 751 OVERTIME BASE & PRE M010 FOREMEN / TEAM LEADS / GROUP R100S RMRS Salaried 675.00 Hours Linear Factors 1 RMRS Foreman (Watson) davs hours OT per day 751 OVERTIME BASE & PRE RADIATION CONTROL TECHNOLIGI | KD10H | 776 Complex Steelworkers Linear 675.00 Hours **RCTs** davs hours OT per day Factors 1 751 OVERTIME BASE & PRE D&D HAZ REDUC TECH / RISK RED | KD10H | 776 Complex Steelworkers 4 050 00 Hours Linear Factors 6 **D&D** Workers 3 hours OT per day Activity ID: 1DE0040000 Description: FY-04 B776/777 Waste Management Operations Cost Risk 2 Schedule Risk

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WBS No: 1DAE01 Rocky Flats Closure Project
Activity ID: 1DE0040000 Baseline Cost and Basis of Estimate

Resources

Cost Element

Proiect Baseline Devl WBS Filter 1DAE

curur 12.	15200 10000			Baseline Co	st an	nd Basis of I	Estimate	Acti	ivity Filter *	D/ (L	Sta	arts In FY *	
Line Item	Description		Quantity		BOE Type	Labor Hours/Unit	Labor Hours Total	Labor Cost Total	Materials/ Sui	Contingency & Escalation	Total Prime Cost	Burden Cost	Total Cos
YS	Contingency And Escalation		1.00	0 ea	EE	0		0		0 300.559		0	300.5
OA	Manage B776/777 Accumulation Areas				EE	16.410		397.497	148.50			112.094	658.0
OI	Integration, Coordination TRU Waste Tech S	Snt			EE	3.600	3.600	143.424	333.00			40.446	516.8
OS	Manage B776/777 SCO/IP2 Transfers/PAD	201		0 each	FF	17.051	17.051	407.216	390.60			116.197	914.0
	manado Di Torri Coom E mandolom No	Tota		ity 1DE004000		17.001	37.061	948.137	872.10			268.736	2.389.
e Item SYS BOE	- Contingency And Escalation		u. 101 7 1011 1	,	•		V 11 V 1	V 101101		<u> </u>			
esources	Cost Element		Skill				Departs	nent		Curve	O	uantity Un	aits
	CON CONTINGENCY	0000 NONE	Ditte			ZDEPT No		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Linear		99.983.38 Dolla	
L	Factors 99983.4 Dollars	OOOO INCINE				ZDLI I INO	Department			Lilleal		73.303.30ID0II8	13
ſ	ESC ESCALATION	0000 NONE				ZDEPT No	Department			Linear	20	0.575.40 Dolla	re
F	Factors 200575 Dollars	OOOO NONE				ZDEI I INO	Department			Lincai	20	70.07 0.40 DOILE	13
	A - Manage B776/777 Accumulation Areas												
	Management of the 4 waste accumulati	on areas will	he cond	higted by a	dedi	cated wast	e operation	g grew gong	igting of	a Foreman 8	DED worker	re 2 PCTe :	and a
	Technical Support Administrator. These crews will be on an AWS, 12-ho	our per day sch	nedule.										
esources	Cost Element		Skill				Departi	nent		Curve	O _l	uantity Un	its
	750 STRAIGHT TIME BASE	P170 OTHER	ADMINIST	RATIVE & PRO	OFF	S100S SS0	OC Salaried			Linear		1.800.00 Hour	s
	Factors 1 Technical Support Essig	1800											_
	750 STRAIGHT TIME BASE	T050 RADIATION		ROL TECHNO	LIGI	KD10H 776	Complex Stee	lworkers		Linear		3.520.00 Hour	S
-	Factors 2 RCTs		Hours F			1101011 1110	COMDICA CIOC	WOINCIO		Linoui		0.020.00111001	_
Ī	750 STRAIGHT TIME BASE	T060 D&D HAZ			RED	KD10H 776	Complex Stee	lworkers		Linear		7.040.00 Hour	S
H	Factors 4 D&D Workers	1760	Hours			1101011 1110	COMDICA CLOC	WOINOIO		Linoui	'	7.0 10.00 1 1001	
Ī	751 OVERTIME BASE & PRE.	T050 RADIATIO			LIGI	KD10H 776	Complex Stee	lworkers		Linear		1.350.00 Hour	S
L.	Factors 225 Working Days	3	hours/d		LIUI	2	RCTs	WOINCIS	+	Lincai	+	1.000.00 1 1001	<u>. </u>
ſ	751 OVERTIME BASE & PRE.			TECH / RISK F	PED	KD10H 776	Complex Stee	lworkers		Linear		2.700.00 Hour	c
Ļ	Factors 225 Working Days	3	hours/d		\LD	1	D&D Wo			Lilleal		2.700.00ji loui	<u> </u>
ſ	A5H SUBCONTRACTED SRVS			1 LEADS / GRO	NI ID	K399S Buil	Idina 776 Proje			Linear		10.500.00 Dolla	rc
L		2	hours/d		UF	1 NOSSO IDUII	Foremar					+U.3UU.UUIDUIIa	15
Г	Factors 225 Working Davs A5H SUBCONTRACTED SRVS	M010 FOREME			V.ID	R100S RM	RS Salaried	1			ars per hour	00 000 00 D-II-	
L					UP					Linear	10	08.000.00 Dolla	rs
	Factors 1 Foreman Schmiechen	1800	Hours 6	eacn		60	Dollars p	er nour					
	- Integration, Coordination TRU Waste Tech S		1 1		7.7			77		. 4			
OE	Waste Operations Integration and coo a technical support administrator.	ordination will	L be con	aucted by A	was	te Operatio	ons Lead, a	waste Oper	ations Coo	rdinator, a	material mo	ovement sch	eauler a
esources	Cost Element		Skill				Departi	nent		Curve	Oı	uantity Un	its
L	750 STRAIGHT TIME BASE	M020 MANAGE	ERS (GRA	DE 69 - 72)		K399S Buil	ldina 776 Proie	ct		Linear		1.800.00 Hour	S
Г	Factors 1800 Hours Waste Operations Le		A DA 415 110 T			R100S RM	DO 0 1 1 1					4 000 0011	
L	750 STRAIGHT TIME BASE	P170 OTHER A		RATIVE & PRO	JFE	R1005 RIVI	KS Salaried			Linear		1.800.00 Hour	S
Г	Factors 1 RMRS Material Movement S		Hours	DE 00 70)		K0000 5 "	I-li 770 D	-4		Line	4-	0 000 00 5 "	
Ļ	A5H SUBCONTRACTED SRVS	M020 MANAGE		NDE 69 - 72)			ldina 776 Proie			Linear	15	3.000.00 Dolla	rs
ſ	Factors 1 Integration Coordinator (TB A5H SUBCONTRACTED SRVS	D) 1800 P170 OTHER A	Hours ADMINIST	RATIVE & PRO	OFE	K399S Buil	Dollars r Iding 776 Proie			Linear	18	30.000.00 Dolla	rs
٠	Factors 1 Technical Support West	1800	Hours			100			!	Emodi	, 10		
	S - Manage B776/777 SCO/IP2 Transfers/PAD												
	Management of SCO containers and the Technical Support Administrator.	2 779 Pad will	be cond	lucted by a	dedi	cated waste	e operation	crew cons	isting of	a Foreman, 6	D&D worker	s, 1 RCTs	and a
	These crews will be on an AWS, 12-ho	our per day sch	nedule.										

Skill

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Curve

Department

WBS No: 1DAE01 Baseline Devl Proiect Rocky Flats Closure Project 1DE0040000 1DAE Activity ID: WBS Filter **Baseline Cost and Basis of Estimate** Activity Filter Starts In FY L050 MISSION SUP SPEC I (CBLFAB.DSP. K777C Construction 750 STRAIGHT TIME BASE 216.00 Hours Linear K-H Const Heavy Equip Operator months days per month hours per day 750 STRAIGHT TIME BASE T050 RADIATION CONTROL TECHNOLIGI KD10H 776 Complex Steelworkers 1.730.00 Hours Linear RCTs 1730 Hours Each 750 STRAIGHT TIME BASE T060 D&D HAZ REDUC TECH / RISK RED KD10H 776 Complex Steelworkers Linear 10.380.00 Hours D&D Workers (2 on Pad. 2 forklift and 1730 Hours each 751 OVERTIME BASE & PRE T050 RADIATION CONTROL TECHNOLIGI KD10H 776 Complex Steelworkers Linear 675.00 Hours RCTs 225 davs hours/day OT Factors 1 751 OVERTIME BASE & PRE T060 D&D HAZ REDUC TECH / RISK RED KD10H 776 Complex Steelworkers 4.050.00 Hours Linear D&D Workers (2 on Pad. 2 forklift and 225 davs hours OT/day M010 FOREMEN / TEAM LEADS / GROUP A5H SUBCONTRACTED SRVS K399S Building 776 Project Linear 144.000.00 Dollars Duratek Foreman (Davidson) 1800 Hours each dollars per hour 54.000.00 Dollars A5H SUBCONTRACTED SRVS M010 FOREMEN / TEAM LEADS / GROUP K399S Building 776 Project Linear Duratek Foreman (Davidson) 225 davs hours OT/day dollars per hour Factors A5H SUBCONTRACTED SRVS P170 OTHER ADMINISTRATIVE & PROFE Building 776 Project 144,000,00 Dollars Linear Technical Support (TBD) Dollars/hour Factors 1 1800 Hours 80 A5L RENTALS 0000 NONE K777S Construction I Linear 48.600.00 Dollars Factors 1 Crane 225 2 9 hours per hour (Andy Gergouski) days per month 12 months Activity ID: 1DXXX04000 Description: FY-05 B776/777 Waste Management Operations 2 Schedule Risk Cost Risk BOE Labor Hours Labor Cost Materials/ Sub Contingency Total Prime Line Item Description **Ouantity** Labor Burden Cost Total Cost TypeHours/Unit **Total Total** Cost & Escalation Cost SYS Contingency And Escalation 1.00 ea EE 0 0 1.080.212 1.080.212 0 1.080.212 WOA Manage B776/777 Accumulation Areas 1.00 each EE 16.410 16.410 397.497 148.500 0 545.997 138.329 684.326 Integration, Coordination TRU Waste Tech Spt 1.00 each EE 333.000 49.912 526.336 WOI 3.600 3,600 143,424 0 476,424 wos Manage B776/777 SCO/IP2 Transfers/PAD 1 00 each FF 17 051 390 600 940.626 17.051 407.216 0 797.816 142.811 Total for Activity 1DXXX04000: 37.061 948.137 872.100 1.080.212 2.900.448 331.051 3.231.500 Line Item SYS - Contingency And Escalation BOE Resources Cost Element Department Ouantity CON CONTINGENCY 0000 NONE ZDEPT No Department 746.304.10 Dollars Linear Factors 746304 Dollars ESC ESCALATION 0000 NONE ZDEPT No Department 333 907 80 Dollars Linear 333908 Dollars Factors Line Item WOA - Manage B776/777 Accumulation Areas Management of the 4 waste accumulation areas will be conducted by a dedicated waste operations crew consisting of a Foreman, 8 D&D workers, 2 RCTs and a BOE Technical Support Administrator. These crews will be on an AWS, 12-hour per day schedule. Resources Cost Element Curve **Ouantity** Units Department P170 OTHER ADMINISTRATIVE & PROFE | S100S | SSOC Salaried 750 STRAIGHT TIME BASE Linear 1.800.00 Hours 1 Technical Support Essig Hours 750 STRAIGHT TIME BASE RADIATION CONTROL TECHNOLIGI | KD10H | 776 Complex Steelworkers Linear 3.520.00 Hours RCTs 1760 Hours Each Factors 750 STRAIGHT TIME BASE D&D HAZ REDUC TECH / RISK RED | KD10H | 776 Complex Steelworkers Linear 7.040.00 Hours 1760 Hours each D&D Workers Factors 4 751 OVERTIME BASE & PRE T050 RADIATION CONTROL TECHNOLIGI | KD10H | 776 Complex Steelworkers Linear 1.350.00 Hours hours/day OT Factors 225 Working Davs **RCTs** 751 OVERTIME BASE & PRE. D&D HAZ REDUC TECH / RISK RED | KD10H | 776 Complex Steelworkers 2.700.00 Hours Linear Factors 225 Working Davs hours/day OT **D&D** Workers A5H SUBCONTRACTED SRVS M010 FOREMEN / TEAM LEADS / GROUP K399S Building 776 Project 40.500.00 Dollars Linear Factors 225 Working Days hours/day OT Foreman 60 dollars per hour

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Rocky Flats Closure Project Activity ID: 1DXXX04000 WBS Filter 1DAE **Baseline Cost and Basis of Estimate** Activity Filter Starts In FY A5H SUBCONTRACTED SRVS M010 FOREMEN / TEAM LEADS / GROUP R100S RMRS Salaried 108.000.00 Dollars Linear Factors Foreman Schmiechen Hours each Dollars per hour Line Item WOI - Integration, Coordination TRU Waste Tech Spt Waste Operations Integration and coordination will be conducted by A Waste Operations Lead, a Waste Operations Coordinator, a material movement scheduler and BOE a technical support administrator. Units Resources Cost Element Skill Department Curve Quantity 750 STRAIGHT TIME BASE M020 MANAGERS (GRADE 69 - 72) K399S Building 776 Project 1.800.00 Hours Linear 1800 Hours Waste Operations Lead Ferrari 750 STRAIGHT TIME BASE P170 OTHER ADMINISTRATIVE & PROFE R100S RMRS Salaried 1.800.00 Hours Linear RMRS Material Movement Scheduler 1800 Hours Factors M020 MANAGERS (GRADE 69 - 72) A5H SUBCONTRACTED SRVS K399S Building 776 Project 153.000.00 Dollars Linear Integration Coordinator (TBD) 1800 Hours Dollars per hour 85 A5H SUBCONTRACTED SRVS P170 OTHER ADMINISTRATIVE & PROFE K399S Building 776 Project Linear 180.000.00 Dollars Dollars/hour Factors 1 **Technical Support West** 1800 Hours 100 Line Item WOS - Manage B776/777 SCO/IP2 Transfers/PAD Management of SCO containers and the 779 Pad will be conducted by a dedicated waste operations crew consisting of a Foreman, 6 D&D workers, 1 RCTs and a BOE Technical Support Administrator. These crews will be on an AWS, 12-hour per day schedule. Resources Cost Element L050 MISSION SUP SPEC L(CBL FAB DSP K777C Construction 750 STRAIGHT TIME BASE Linear 216 00 Hours K-H Const Heavy Equip Operator months davs per month hours per day 750 STRAIGHT TIME BASE T050 RADIATION CONTROL TECHNOLIGI | KD10H | 776 Complex Steelworkers 1.730.00 Hours Linear RCTs 1730 Hours Each 1 Factors T060 D&D HAZ REDUC TECH / RISK RED 750 STRAIGHT TIME BASE KD10H 776 Complex Steelworkers Linear 10.380.00 Hours D&D Workers (2 on Pad. 2 forklift and 1730 Hours each 751 OVERTIME BASE & PRE T050 RADIATION CONTROL TECHNOLIGI KD10H 776 Complex Steelworkers 675.00 Hours Linear 1 **RCTs** davs hours/day OT Factors 751 OVERTIME BASE & PRE D&D HAZ REDUC TECH / RISK RED 4.050.00 Hours T060 KD10H 776 Complex Steelworkers Linear 6 D&D Workers (2 on Pad. 2 forklift and 225 davs hours OT/day Factors A5H SUBCONTRACTED SRVS M010 FOREMEN / TEAM LEADS / GROUP K399S Building 776 Project 144.000.00 Dollars Linear Duratek Foreman (Davidson) Hours each Factors 1800 dollars per hour A5H SUBCONTRACTED SRVS M010 FOREMEN / TEAM LEADS / GROUP K399S Building 776 Project Linear 54.000.00 Dollars Duratek Foreman (Davidson) hours OT/day Factors 1 225 80 dollars per hour A5H SUBCONTRACTED SRVS P170 OTHER ADMINISTRATIVE & PROFE K399S Building 776 Project 144,000,00 Dollars 1 Technical Support (TBD) 1800 Hours 80 Dollars/hour Factors A5L RENTALS 0000 NONE K777S Construction I 48.600.00 Dollars Linear Crane per hour (Andy Gergouski) 9 Factors 1 225 2 days per month hours 12 months Report Totals: Labor Hours Materials/Sub Total Prime Labor Cost Contingency Burden Cost Total Cost Total **Total** Cost & Fscalation Cost 325.413 8.174.561 5.247.680 16.575.600 3.114.180 19.689.780

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